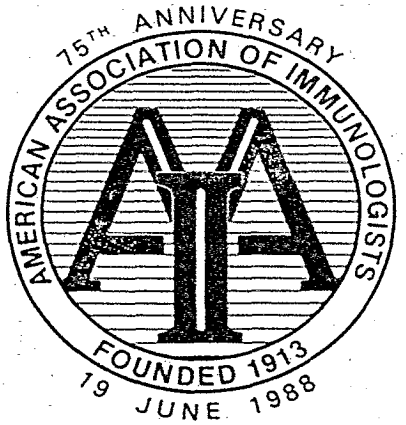
Information for the
72nd Annual Meeting

Federation of American Societies for Experimental Biology

May 1-5, 1988
Las Vegas Convention Center
Las Vegas, Nevada

Member Societies:
- The American Physiological Society
- American Society for Biochemistry and Molecular Biology
- American Society for Pharmacology and Experimental Therapeutics
- American Association of Pathologists
- American Institute of Nutrition
- The American Association of Immunologists

Guest Societies:
- Biomedical Engineering Society
- Society for Experimental Biology and Medicine
- Society for Mathematical Biology



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Centerfolds (Pull out carefully):

Abstract Forms (two copies)
Program Confirmation Card (two copies)
Reprint Order Card
Return Envelope for Abstract
Meeting Registration Card
Request for Forms Card

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American Society for Biochemistry and Molecular Biology

CHARLES C. HANCOCK
Executive Officer

Serial 7-586
September 1987

9650 Rockville Pike
Bethesda, MD 20814
(301) 530-7145

MEMORANDUM

TO: ASBMB Members

FROM: Charles C. Hancock, Executive Officer Charles C Hancock

SUBJECT: Annual Meeting Call for Papers

You will find enclosed in this booklet all the materials and instructions necessary for submitting an abstract, registering, and requesting hotel accommodations for the 1988 meeting in Las Vegas. After you review the tentative program, we are sure that you will agree that ASBMB has planned an outstanding program.

There are several items that you should note:

a. The Society will award up to $1,000 to any graduate student who is selected to present a paper during an Afternoon Symposium. The Council initiated this program to encourage the attendance and participation of graduate students at the annual meeting. Please note that the student cannot have received a doctorate of any type to be considered eligible for the travel award. Please make sure that the block on the abstract form is completed. In addition, please make sure that your graduate students are aware of this travel support.

b. Again, the Society will pay the audio-visual expenses for satellite meetings on the Saturday or Sunday preceding the start of the normal program, April 30 and May 1. In addition, there are no charges for room arrangements. If you wish to sponsor a satellite meeting, please request financial support by submitting a letter giving information on the topic, tentative program, and number of attendees. Letters should be received in the ASBMB office by December 8, 1987.

c. ASBMB is jointly sponsoring, with AIN, a theme for the meeting entitled "Metabolic Regulation." The six sessions for this theme are listed under "Special Sessions and Symposia" elsewhere in the booklet. The six sessions will be scheduled on three consecutive days both morning and afternoon. Individuals interested in the theme should find this an extremely interesting and exciting program.

d. Please make your hotel reservations early. Housing costs are quite reasonable in Las Vegas and a good attendance is expected. In addition, housing is somewhat limited.

We hope to see all of you in Las Vegas.

CCH:smd

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FEDERATION OF AMERICAN SOCIETIES FOR EXPERIMENTAL BIOLOGY
May 1-5, 1988
Las Vegas, Nevada

GENERAL INFORMATION

Participating FASEB Societies

The 1988 FASEB Annual Meeting is scheduled May 1-5, in Las Vegas, Nevada. **All six of the corporate FASEB Societies** will meet together, with the American Association of Immunologists celebrating the 75th anniversary of its founding.

The American Physiological Society (APS)
American Society for Biochemistry and Molecular Biology [(ASBMB) formerly the American Society of Biological Chemists]
American Society for Pharmacology and Experimental Therapeutics (ASPET)
American Association of Pathologists (AAP)
American Institute of Nutrition (AIN)
The American Association of Immunologists (AAI)

Members of the American Society for Cell Biology (ASCB), an affiliate FASEB Society, may register at the FASEB member fee and may submit abstracts for the meeting through the American Society for Biochemistry and Molecular Biology. ASCB member registrants will receive the Program and Guide to Exhibits without extra charge. The Abstract Volumes are not included but may be purchased separately, if desired.

Guest Societies

The following organizations will participate in the meeting as Guest Societies, with their programs coordinated by The American Physiological Society:

The Biomedical Engineering Society (BMES)
Society for Experimental Biology and Medicine (SEBM)
Society for Mathematical Biology (SMB)

Members of Guest Societies may register at the FASEB member fee and will receive the Program and Guide to Exhibits without extra charge; however, the Abstract Volumes are not included as a part of the registration fee, and must be purchased if desired. Guest Society members may submit abstracts through APS.

Thematic Program

The program will include four interdisciplinary themes (see page 7 for additional information):

Receptors and Growth Factors
Organizer: Joost J. Oppenheim
Immunopharmacology and Immunotoxicology
Organizers: S. Gaylen Bradley and Albert E. Munson
Metabolic Regulation
Organizer: Neal W. Cornell
Cardiovascular Disease and Ischemic Injury
Organizers: James M. Downey and Michael A. Gimbrone

Schedule

Registration will open Sunday afternoon, May 1; scientific sessions will be scheduled from Monday morning through 4:30 PM Thursday, May 5.

Headquarters and Locations of Sessions

For the first time, all scientific sessions will be scheduled in only two locations: the Las Vegas Convention Center and the Las Vegas Hilton Hotel. The Hilton is just across the street from the Convention Center.

Services: Headquarters, Business Office, Registration, Information, Placement Service, Exhibits will be located at the Las Vegas Convention Center.

Auxiliary Information Centers: Las Vegas Hilton Hotel and Riviera Hotel.

Society Headquarters

Physiology (APS, BMES, SMB, SEBM)	Las Vegas Hilton
Biochemistry/Molecular Biology (ASBMB)	Las Vegas Hilton
Pharmacology (ASPET)	Riviera Hotel
Pathology (AAP)	Las Vegas Hilton
Nutrition (AIN)	Riviera Hotel
Immunology (AAI)	Las Vegas Hilton

All scientific sessions will be scheduled at the Las Vegas Convention Center and the Las Vegas Hilton Hotel. Headquarters hotels will host each Society's council and committee meetings and special events.

Registration Fees

	Advance	*At the Meeting*
Member of FASEB Societies	$ 75.00	$100.00
Member of Guest Societies	$ 75.00	$100.00
Retired Member	$ 30.00	$ 35.00
Nonmember	$110.00	$135.00
Student (Including APS Student Member and ASPET Student/Fellow Member)	$ 30.00	$ 35.00

(Nonmember student registrants must have a department head or research advisor certify student's eligibility on the reverse of the registration card. If registering at the meeting bring a student ID card or a letter signed by your department head. *Postdoctoral fellows, hospital residents, interns and laboratory technicians do not qualify as students.*)

Note: FASEB does not accept credit cards for payment of registration or other fees. All checks must be written on U.S. or Canadian banks (in U.S. Funds).

Social Registration

Spouses and other nonscientist family members and guests may register in advance. Use the regular registration card and add name of guest in the appropriate space, as you wish it printed on the badge. The Social registration fee ($15) includes use of the facilities of the Guest Hospitality Room in the Las Vegas Hilton, daily refreshments, and admission to the exhibits; it **does not include admission to the scientific sessions.**

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Press Registration

Press badges will be issued in the Press Room (Las Vegas Convention Center) only to members of the working press and freelance writers bearing a letter of assignment from an editor. Representatives of allied fields (public relations, public information, public affairs, etc.) may register as nonmembers in the registration area. Press Room hours: May 1, 1-5 PM; May 2-5, 8 AM-5 PM.

Advance Registration (Deadline for Receipt: March 2, 1988)

Mail enclosed registration card with applicable fee to: FASEB Office of Scientific Meetings, 9650 Rockville Pike, Bethesda, MD 20814. Nonmembers, non-subscribers to FJ, and members of Guest Societies should send an additional $60 for Abstract Volumes (March issue of THE FASEB JOURNAL) if desired. Programs, receipts, and badges will be mailed in April.

Purchase orders and credit cards will *not* be accepted as payment.

Receipts, Badges and Programs

Mailed to advance registrants in April. Badge must be worn to sessions, exhibits, and Placement Service. **Note:** Badge will be an embossed card, used also as exhibit inquiry card.

Refunds

Advance registrants must request refunds in writing and return their badges and receipts to the FASEB Office of Scientific Meetings by April 28, 1988.

Avoid long lines. Register in advance.

On-Site Registration Hours

Sunday, May 1	2:00 PM - 8:00 PM
Monday, May 2	7:30 AM - 4:30 PM
Tuesday, May 3	8:00 AM - 4:30 PM
Wednesday, May 4	8:00 AM - 4:30 PM
Thursday, May 5	8:00 AM - 2:00 PM

Continuing Medical Education Credit

The 1988 FASEB Annual Meeting has been certified for CME Category I credit on an hour-for-hour basis. CME forms, which must be completed and returned to receive credits, will be available in the FASEB Headquarters Office, all Society Offices, and at each headquarters hotel Auxiliary Information Desk.

Abstract Volumes

The March 1988 issue of THE FASEB JOURNAL will contain all programed abstracts and will be published in several volumes. These will be mailed in March to FASEB Society members, other FJ subscribers, and Guest Society advance registrants and other nonmembers who have prepaid for them.

Guide to Exhibits

The GUIDE TO EXHIBITS will contain a directory of exhibiting firms, products, services and floorplans, advertisements, and general meeting information. It will be given to all registrants in Las Vegas; it will not be mailed in advance.

Exhibits

Las Vegas Convention Center, Monday - Thursday, May 2-5, 8:30 AM-4:30 PM.

Institutional Exhibits

Request information and application forms from the FASEB Office of Scientific Meetings, 9650 Rockville Pike, Bethesda, MD 20814 (301/530-7010). Deadline for receipt of requests: December 7, 1987. Proposed exhibits are subject to approval by the FASEB Program Committee.

Exhibit Inquiry Cards

The embossed cards used this year for meeting registration badges will also serve as exhibit inquiry cards. Mailed to all advance registrants in April.

Shuttle Bus Service

Service is available between all participating hotels and the Convention Center from 1:30 PM-9 PM, Sunday, May 1, and during session hours Monday AM through Thursday PM, May 2-5. Information regarding bus stops, hours and frequency will be indicated in the Program.

Handicapped

Registrants with special housing or transportation problems are advised to contact the FASEB Office of Scientific Meetings, 9650 Rockville Pike, Bethesda, MD 20814, (301) 530-7010.

Hotel Reservations

Mail the enclosed form to be received **before April 4, 1988.** Telephone reservations will **not** be accepted. **Lower priced rooms will go quickly.** If rate requested is no longer available, next highest rate will be assigned.

ADVANCE DEPOSIT: After the hotel sends you a confirmation, you must immediately send a deposit to guarantee one night's lodging. Hotels will not hold reservations without a deposit.

CANCELLATIONS: Notify the Housing Bureau immediately if you must cancel your reservation.

CHANGES: Notify the hotel direct of any changes.

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IMPORTANT: In order for the Housing Bureau to process your request for hotel reservations, the **reservation form must be received at the Bureau no later than April 4, 1988. Requests for hotel reservations after that date will be returned to the individual with instructions to call the Hotel/Motel Office. The Hotel/Motel Office will not make reservations for you but will give you a list of hotels and you must make your own reservation on an availability basis at a higher rate.**

Also note that **there are a limited number of rooms available for arrival on Saturday, April 30.** *Therefore, you must send* your hotel reservation form in immediately. **If you request a Saturday arrival and rooms are not available, your room will automatically be reserved for arrival on Sunday, May 1.**

Expense-Sharing/Child Care Services

If you wish to arrange to share a room with a colleague or if you will require child care during the meeting, please complete the enclosed Expense-Sharing/Child Care card and return to the FASEB Office of Scientific Meetings, 9650 Rockville Pike, Bethesda, MD 20814 no later than December 7, 1987.

Room Sharing: FASEB will compile a list which will include names, addresses, telephone numbers and arrival/departure dates and circulate the list to all requesting this service. It is then your responsibility to write or call anyone on the list with whom you wish to share a room.

Child Care: Information will be sent to those requesting this service. Arrangements must then be completed between the individual requesting child care and the agency or facility.

FASEB assumes no responsibility with respect to these services and accepts no liabilities relative to the services. Your signature on the Expense-Sharing/Child Care card is your acknowledgment and acceptance of FASEB's disclaimer of liability.

Airport Transportation

Airport limousines and taxis between the Las Vegas Airport and participating hotels are readily available; current cost is approximately $6 one way. Travel time to the downtown area is approximately 20-30 minutes.

Rental Cars

ALLSTATE CAR RENTAL has been appointed the offical car rental for the meeting. Special discounted rates have been extended to any participant. Reservations may be made by calling toll free 1-800-634-6186. Be sure to identify yourself as a FASEB Meeting attendee and give the dates of the Meeting to guarantee the special rate.

Special Functions

Applications for hotel space for special meetings, luncheons, dinners, etc., must be made to the FASEB Office of Scientific Meetings, which will handle arrangements on request. If events are to be listed in the Program, arrangements are to be completed by November 16, 1987, for approval by the Program Committee. All space requests must be received by December 7, 1987. After this date unassigned function rooms are released to the hotels. Further information and forms are available from FASEB Office of Scientific Meetings, 9650 Rockville Pike, Bethesda, MD 20814. Telephone: 301/530-7010.

PROGRAM INFORMATION

Symposia and Special Sessions

A preliminary program of Society and thematic symposia and special sessions is found on pages 7-9.

Contributed Abstract Sessions

Sessions will be scheduled from Monday morning, May 2, through 4:30 PM Thursday, May 5. Abstracts will be programed in either slide sessions, poster sessions, minisymposia or afternoon symposia (ASBMB). Information regarding submission of abstracts appears in the following pages. The Program Committee of each Society decides in what manner abstracts will be programed. Abstracts are assigned on the basis of author's topic preference, relationship to other reports offered, the number submitted and availability of session rooms.

Retain the enclosed INSTRUCTIONS FOR POSTER PRESENTATIONS in the event your paper is programed in a poster session.

Instrumentation Tutorials

A series of instrumentation tutorials is being developed jointly by the exhibitors and the FASEB Meetings Committee. All tutorial sessions will be scheduled in the Las Vegas Convention Center.

Teaching Materials and Methods Program

A Learning Resources Center, located near the poster session area, will be available for the display of new curricula, media, or techniques, through poster presentations, table exhibits, computer demonstrations, and audiovisual facilities. See page 11 for further information.

Source: https://www.industrydocuments.ucsf.edu/docs/xhvb0000

FASEB PLACEMENT SERVICE

LOCATION — Las Vegas Convention Center

REGISTRATION

Sunday, May 1	2:00 PM-8:00 PM
Monday - Tuesday, May 2-3	8:30 AM-4:30 PM
Wednesday, May 4	8:30 AM-1:00 PM

INTERVIEW SCHEDULING

Monday - Wednesday, May 2-4	8:30 AM-4:30 PM

INTERVIEWS

Monday, May 2	1:00 PM-4:30 PM
Tuesday - Wednesday, May 3-4	9:00 AM-4:30 PM
Thursday, May 5	9:00 AM-1:00 PM

Employers, interviewers and candidates using the interviewing facilities at the Annual Meeting must register for attendance at the meeting as well as with the Placement Service.

CANDIDATES

Annual Fee	$10.00
Positions, published in March	$10.00

The annual fee includes:

1. Publication of application in the 1988 *Candidates,* distributed in February, IF APPLICATION IS RECEIVED BY JANUARY 22, 1988
2. Publication of Position Desired advertisement in one issue of *The FASEB Journal*
3. Use of interviewing facilities at the FASEB Annual Meeting, including interview scheduling services, review of posted position vacancy descriptions, and distribution of copy of application to each participating employer.
4. Availability of application for review by employers visiting the FASEB campus and by FASEB staff members conducting searches on behalf of employers.

CANDIDATES

Annual Fee

Commercial organizations	$450.00
Academic and other nonprofit institutions	$225.00

The annual fee includes:

1. Receipt of one copy of 1988 *Candidates,* published and distributed in February
2. Posting of position vacancy descriptions at Annual Meeting
3. Receipt of copy of application of each candidate attending meeting
4. Use of interviewing facilities at the FASEB Annual Meeting, including interview scheduling services

Interviewers must be authorized by the individual named on registration form. Authorization of two interviewers is included in the annual fee. Three additional interviewers may be authorized, at an additional fee of $25.00 each, which must accompany authorization.

Employers not registering with the Placement Service may purchase the posting of position vacancy descriptions at annual meetings, under a "NO INTERVIEWS GRANTED" heading, for a fee of $35.00 per description. Payment must accompany description(s).

Position vacancy descriptions received from any employer, whether or not otherwise participating in Placement Service operations, will be included without charge in the 1988 *Positions,* published and distributed in March, if received by February 5, 1988.

ADVANCE REGISTRATION

Candidates and employers are requested to register in advance, by April 15, 1988; at-meeting registration is available.

PLACEMENT SERVICE FORMS AND INSTRUCTIONS will be mailed upon request. Please write or call: FASEB Placement Service, 9650 Rockville Pike, Bethesda, MD 20814 (301) 530-7020.

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SYMPOSIA AND SPECIAL SESSIONS

FASEB 3M LIFE SCIENCES AWARD LECTURE
Presentation of the Award and lecture by the recipient.

THEMATIC SYMPOSIA

RECEPTORS AND GROWTH FACTORS
Organizer: J.J. Oppenheim
Receptors and Growth Factors for Mesenchymal Cells
Chair: R. Ross and M.B. Sporn
Neuroendocrine Receptors and Growth Factors
Chair: M.P. Czech and H. Rozengurt
Receptors and Growth Factors for Myeloid Cells
Chair: D. Metcalf and M. Dexter
Receptors and Growth Factors for Lymphoid Cells
Chair: T.A. Waldmann and Maureen Howard
Receptors and Growth Factors in Development and Neoplasia
Chair: H.L. Moses and C.D. Stiles
Growth Factor — Receptor Signal Transduction
Chair: Ora M. Rosen and Nancy L. Colburn

CARDIOVASCULAR DISEASE AND ISCHEMIC INJURY
Organizers: J.M. Downey and M.A. Gimbrone, Jr.
Initiating Mechanisms in Vascular Disease
Chair: Michael A. Gimbrone, Jr.
Dynamics of Thrombosis and Thrombolysis
Chair: Charles T. Esmon
Coronary Vasospasm
Chair: Paul M. Vanhoutte and Motoomi Nakamura
Molecular and Cellular Mechanisms of Tissue Repair
Chair: Russell Ross and Michael Sporn
Mechanisms of Cellular Injury in the Ischemic and Reperfused Myocardium
Chair: Keith Reimer and Bruce Freeman
Leukocyte-Mediated Injury in Ischemia
Chair: G.W. Schmidt-Schonbein
Protection of Ischemic Heart
Chair: James M. Downey
Arrhythmias in Myocardial Ischemia and Reperfusion
Chair: David J. Hearse

METABOLIC REGULATION
Organizer: N.W. Cornell
Intracellular Signalling Through Phosphoinositides and Calcium
Chair: J.H. Exton
Molecular Biology and the Regulation of Metabolic Pathways
Chair: A.G. Goodridge
Role of Post-Translational Modifications in Metabolic Regulation
Chair: R.B. Rucker
Omega-3 Fatty Acid Effects on Lipid Metabolism
Chair: R.B. Shireman
Structural and Organizational Aspects of Metabolic Regulation
Chair: P.A. Srere
Nutrients and Natural Materials as Regulators of Cytochrome P450 and Its Actions
Chair: E.S. Vesell

IMMUNOPHARMACOLOGY AND IMMUNOTOXICOLOGY
Organizers: S. Gaylen Bradley and Albert E. Munson
Pharmacologic action(s) of mediators of inflammation
Chair: Jean Regal
Immunomodulation and cancer
Chair: Scott Loveless
Receptors in immune regulation and modulation
Chair: Kendall A. Smith
Immunomodulation: drugs used in down modulation of immune response
Chair: Jack Dean
Approaches to treatment of inflammation
Chair: Shaun Ruddy and Larry Schwartz
Immunotoxicology: environmental agents
Chair: Michael Holsapple
Immunotoxins
Chair: Ellen S. Vitetta
Drugs used in treatment of AIDS
Chair: Michael Luster

THE AMERICAN PHYSIOLOGICAL SOCIETY
Oxygen Radicals: A Target and Source of Oxidant Injury
Chair: Una S. Ryan
Biology of the Pulmonary Intracapillary Macrophages
Chair: Norman C. Staub
Regulation of Blood Flow in Endocrine Glands
Chair: Claude Desjardins
Pathogenesis and Impact of Insulin Resistance in Noninsulin-Dependent Diabetes Mellitus
Chair: John E. Gerich
Atrial Natriuretic Peptide: Actions in Animal Models of Hypertension and Heart Failure
Chair: Ronald H. Freeman
Hormonal Regulation of Fluid and Electrolytes: Environmental Effects
Chair: John R. Claybaugh and Charles E. Wade
Control of the Pharyngeal Airway
Chair: David P. White
Mechanisms of Epitehlial Ion Transport Across the Frog Skin
Chair: Stanley D. Hillyard
Renal Physiology: People and Ideas
Chair: Carl W. Gottschalk
Excitation-Contraction Coupling in Striated Muscle
Chair: Alex Fabiato
Taxonomy of Plasma Membrane Anion Exchange
Chair: Peter Aronson
Molecular Aspects of Epithelial and Photoreceptor Cell Polarity
Chair: Enrique Rodriguez-Bolan
Regulation of Renal Ionic Channels
Chair: Lawrence G. Palmer
The Cellular and Molecular Biology of Renal Hypertrophy
Chair: Marc R. Hammerman
Physiology and Pathophysiology of Reactive Oxygen Metabolites in the Digestive System
Chair: N.D. Granger and M.B. Grisham
Neural Control of the Intestinal Epithelium
Chair: Helen J. Cooke
Regulation of Cerebral Blood Flow
Chair: Donald D. Heistad
Regulation and Role of Vascular Capacitance
Chair: Carl F. Rothe
Cardiovascular Actions of Epoxyeicosatrienoic Acids: Novel Metabolites of Arachidonic Acid Produced by a Cytochrome P450 Monoxygenase
Chair: Kenneth G. Proctor
Myocardial Ischemia in the Hypertrophied Heart
Chair: Robert J. Bache

BIOMEDICAL ENGINEERING SOCIETY SPONSORED SYMPOSIA
Impedance Techniques in Biological Systems
Chair: Hun H. Sun and Joseph M. Van DeWater
Measurement of Convection and Diffusion in Biological Systems
Chair: Rakesh K. Jain and Fitz-Roy E. Curry

SOCIETY FOR EXPERIMENTAL BIOLOGY AND MEDICINE SPONSORED SYMPOSIA
Osteoporosis: Basis and Treatment
Chair: Hector F. DeLuca
Newly Discovered Actions of 1,25-$(OH)_2D_3$
Chair: Hector F. DeLuca

SOCIETY FOR MATHEMATICAL BIOLOGY SPONSORED SYMPOSIA
The Dynamics of Excitable Media
Chair: Simon A. Levin

SOCIETY OF GENERAL PHYSIOLOGISTS SPONSORED SYMPOSIA
Reconstitution Motility *in vitro*
Chair: J.A. Spudich and Y.E. Goldman

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AMERICAN SOCIETY FOR BIOCHEMISTRY AND MOLECULAR BIOLOGY

Plenary Session Lectures

From Enzymes to Abzymes
Speaker: Stephen J. Benkovic

Structural Basis of Light Energy- and Electron Transfer in Protein Pigment Complexes
Speaker: Robert Huber

"Zinc Fingers": A Novel Class of Protein Fold for Interaction with Nucleic Acids
Speaker: Aaron Klug

Specifying Tertiary Structure: Some Geometrical Aspects of Protein Folding
Speaker: Frederic M. Richards

Opening Lectures

Protein Transport in the Golgi
Speaker: James E. Rothman

G Proteins and Transmembrane Signaling
Speaker: Alfred G. Gilman

Factors and Mechanism Involved in the Transcriptional Control of Eukaryotic Genes
Speaker: Robert G. Roeder

The Biochemistry and Biology of RNA Splicing
Speaker: Phillip A. Sharp

Dynamics of Microtubules
Speaker: Marc Kirschner

Replication of Viral Chromosomes *in vitro*
Speaker: Thomas J. Kelly, Jr.

The Molecular Genetics of Cancer
Speaker: Michael J. Bishop

ASBMB-Merck Award Lecture
Speaker: To be announced

William C. Rose Award in Biochemistry Lecture
Speaker: To be announced

The Herbert A. Sober Memorial Lectureship
Speaker: To be announced

Major Symposia

The Structural Basis of Receptor Function and Regulation
Chair: Robert J. Lefkowitz

Regulatory Proteins that Control Gene Expression in Mammalian Cells
Chair: Steven McKnight

Molecular Dynamics of the Cytoskeleton
Chair: Thomas D. Pollard

Phosphatidylinositol-Derived Signal Pathways
Chair: Phillip W. Majerus

Protein/DNA Complexes: Structures and Transformations
Chair: Stephen C. Harrison

Genetic Approaches to Gene Regulation in Yeast
Chair: Gerald Fink

The Molecular Biology of Development
Chair: Spyridon Artavanis-Tsakonas

Afternoon Symposia

Intercellular Signalling/Chemotaxis
Chair: Peter Devreotes

Mechanisms of Intracellular Protein Breakdown
Chair: Avram Hershko

Anchoring Membrane Proteins by Glycosyl-Phosphatidyl-Inositol
Chair: Martin Low

Folding and Stability of Mutant Proteins
Chair: David R. Shortle

Mechanism and Regulation of Fatty Acid Synthesis
Chair: Salih J. Wakil

Glucose Transport Proteins: Structure, Function and Regulation
Chair: Harvey F. Lodish

Mechanisms of Gene Rearrangement Reactions
Chair: Kiyoshi Mizuuchi

Protein Engineering: Three Case Studies
Chair: Greg Petsko

RNA Enzymes
Chair: Sidney Altman

mRNA Splicing in Yeast
Chair: John Abelson

Oxy and Peroxy Radicals in P-450-Catalyzed Reactions
Chair: Minor J. Coon

Transcription of Plant Organellar and Nuclear Genes
Chair: Virginia Walbot

Phospholipases
Chair: Edward A. Dennis

Mechanisms of Enzymes
Chair: Debra Dunaway-Mariano

Differentiation-Induced Gene Expression
Chair: Charles Emerson

Protein Kinases
Chair: J.D. Corbin

Glycoprotein Biosynthesis
Chair: Rosalind H. Kornfeld

Heat-Shock Response
Chair: Susan Lindquist

Protease Inhibitors
Chair: David J. Loskutoff

Enzyme-DNA Interactions, Metalloproteins: Structure and Mechanisms
Chair: Albert S. Mildvan

NMR Studies of Metabolism *in vivo*
Chair: Robert G. Shulman

Mechanisms of Membrane Assembly and Protein Secretion
Chair: William Wickner

Biochemistry and Functions of the Ether-Linked Lipids
Chair: Robert L. Wykle

Role of Lipids in Signal Transduction
Chair: R.H. Christian Raetz

Developmental Molecular Biology
Chair: To be announced

AMERICAN SOCIETY FOR PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS

Tentative list of symposia

Novel cellular mechanisms of vasodilation
Chair: S.P. Duckles and M.L. Cohen

Renal alpha-2 adrenoceptors: the state of the art
Chair: W.A. Pettinger

Gastrointestinal drug receptors
Chair: F. Porreca

Neutral endopeptidase 24.11 (NEP; enkephalinase): structure, actions and inhibitors
Chair: E.G. Erdos

Asthma: role of airways epithelium in bronchial hyperreactivity
Chair: J.S. Fedan

EDRF: identification, properties and metabolism
Chair: L.J. Ignarro

Benzomorphan pharmacodynamics update
Chair: N. Khazan

Foreign compound metabolism and toxicology studies with human liver
Chair: G. Powis and I.G. Sipeo

Stress and the developing organism
Chair: T.A. Slotkin

Developmental changes in the P450 genes responsible for steroidogenesis
Chair: D.W. Nebert

Regulation of cell proliferation by neuropeptides: a new function of clinical importance
Chair: A. Schonbrunn

Metabolism of therapeutic proteins: basic and applied aspects
Chair: R.E. Billings

Metabolism of endogenous substrates by cytochrome P-450
Chair: D. Kupfer and J.B. Schenkman

New approaches to studying ligand-receptor interactions: from the test tube to the PET scanner
Chair: R.B. Rothman and P.B. Molinoff

Stereospecific drug disposition
Chair: D.C. Brater

Source: https://www.industrydocuments.ucsf.edu/docs/xhvb0000

AMERICAN ASSOCIATION OF PATHOLOGISTS, INC.

President's Symposium: DNA Polymerases: Structure-Function Relationships of Human and Viral Replicative Enzymes
Chair: David Korn

Inflammation and Mediator Interactions *(Supported by Cudkowicz Fund)*
Chair: Peter Henson

Chromosomal Approaches to Oncogenes and Oncogenesis
Chair: Peter C. Nowell

Acquired Immunodeficiency Syndrome (AIDS)
Chair: Flossie Wong-Stahl

Molecular Aspects of Alzheimer's Disease
Chair: Pierluigi Gambetti

Stromal-Target Cell Interactions in Hemopoietic Differentiation
Chair: Irving Weissman and Gerald Crabtree

Workshops

Application of Molecular Biology to Pathology
Chair: Robert Friedman

Computerized Image Analysis in Pathology
Chair: Stephen M. Schwartz

Although there is no charge for these sessions, to facilitate interchange and a workshop atmosphere, attendance will be limited to approximately 25 people. Both workshops will be supported by the *Robert E. Stowell Endowment Fund.* Participants (and alternates) will be selected on a first come, first served basis. Applications should be made by letter to: Dr. Robert Friedman, Department of Pathology, Uniformed Services University of Health Sciences, 4301 Jones Bridge Road, Bethesda, MD 20814 (Application of Molecular Biology to Pathology); and Dr. Stephen M. Schwartz, Associate Professor, Department of Pathology SJ-60, University of Washington, I420 Health Science Bldg., Seattle, WA 98195 (Computerized Image Analysis in Pathology).

AMERICAN INSTITUTE OF NUTRITION

Chemical Senses and Nutrition
Chair: M.I. Friedman and M.R. Kare

Compartmental Analysis: A Mathematical Modeling Approach to Experimental Nutrition
Chair: M.H. Green

Metabolic Efficiency and Weight Regulation in Human and Animal Models
Chair: M.R.C. Greenwood and E.S. Horton

Nutrient Supplementation: Risk/Benefit Analysis
Chair: John N. Hathcock

Biological Actions of Carotenoids
Chair: J.A. Olson and A. Bendich

History of Nutrition Symposium: Nutritional Advances from Military Experience and Research
Chair: K.J. Carpenter and W.J. Darby

53rd Annual Poultry Nutrition Conference: Nutrient Control of Gene Expression in Avian Cells
Chair: C.C. McCormick

29th Annual Ruminant Nutrition Conference: Recent Developments in Trace Element Metabolism and Function
Chair: J.W. Spears

AMERICAN ASSOCIATION OF IMMUNOLOGISTS

75th ANNIVERSARY CELEBRATORY SYMPOSIUM ON "IMMUNOLOGY IN PERSPECTIVE"

Honorary Chair: Michael Heidelberger, New York University, AAI President, 1945-47 and 1948-49
Co-Chair: Donald C. Shreffler, AAI President, 1987-88
Distinguished Speakers:
Baruj Benacerraf, Harvard Medical School, Nobel Laureate, and AAI President, 1973-74
Elvin A. Kabat, Columbia University, College of P&S, AAI President, 1965-66
Sir G.J.V. Nossal, Director, Walter and Eliza Hall Inst., and President, International Union of Immunological Societies, AAI Honorary Member
David W. Talmage, Director, Webb-Waring Lung Inst., AAI President, 1978-79

PLENARY LECTURES

1988 Presidential Address
Speaker: D.C. Shreffler

Immunopathogenic Mechanisms in HIV Infection
Speaker: A.S. Fauci

Characteristics of Antigenic Peptides That Are Required for Interaction with Ia and Recognition by T Cells
Speaker: H.M. Grey

The T Cell Repertoire
Speaker: Philippa Marrack

AAI-NIAID SYMPOSIUM (Sunday, May 1, 1:30 PM)
Topic: "CONTEMPORARY TOPICS IN IMMUNOLOGY"
Chair: B.W. Janicki and J.F. Albright

AAI SPECIAL SYMPOSIUM (Monday, May 2, 7:00 PM)
Title: **MOLECULAR AND GENETIC IMMUNO-PROBES FOR BIOTECHNOLOGY**
Chair: Everly Conway De Macario
Topics and Speakers:
Immunoassays for Antigen Detection Using Monoclonal Antibodies
Speaker: J.M. Davie

Cell and Gene-Clone Products for Immunoprophylaxis: Malarial Vaccine
Speaker: V. Nussenzweig

Interleukines and Growth Factors
Speaker: C.S. Henney

International Joint Projects Between Universities and Industries
Speaker: I.C. Gunsalus

Source: https://www.industrydocuments.ucsf.edu/docs/xhvb0000

SUBMISSION OF ABSTRACTS

Rules for Submission

Study the RULES FOR PRESENTATION OF PAPERS (page 11) carefully to ensure that your abstract is in conformity with all requirements.

Topic Category Lists

Use the topic category lists, pages 12-18, to select appropriate topics under which your paper could be programed. Indicate in the appropriate box on the Abstract Form the number(s) and title(s) under which your paper could be presented.

Abstract Form

The Abstract issues of THE FASEB JOURNAL will be prepared by direct photoreproduction of the abstract you type. Read instructions carefully. You must use an original FASEB 1988 Abstract Form. Two copies are enclosed and extras are available from FASEB Office of Scientific Meetings, 9650 Rockville Pike, Bethesda, MD 20814, (301/530-7010).

Photocopies or pasted abstracts cannot be accepted.

Title of Abstract

Important: The abstract title should be concise and descriptive. Omit extraneous words. A permuted word index will be generated by computer from titles.

Program Confirmation Return Card

Complete and return one Program Confirmation Return Card (centerfold) to receive notification of program date, time and place. Two copies of the card are enclosed for your convenience.

Enclose a self-addressed stamped U.S. postal card if you wish acknowledgment of receipt of your abstract.

Abstract Handling Fee

A check in the amount of $25, made payable to FASEB, must accompany your abstract form. Purchase orders must be made out to Federation of American Societies for Experimental Biology (not "FASEB").

Instructions for Preparation of Abstract and Check List

Read the instructions carefully and use the check list (page 19) to ensure that all materials are correctly and fully prepared.

Reprints

If you wish to purchase abstract reprints, use the enclosed Reprint Order Card. Note: An additional $5 per reprint order will be charged if payment will be made through purchase order which requires billing. Purchase orders must be made payable to "Federation of American Societies for Experimental Biology." Do not use "FASEB."

Projection

Projectors for 2" x 2" slides ONLY will be provided in all slide session rooms. **If you will require a 3¼" x 4" projector you must request it from the FASEB Office of Scientific Meetings, 9650 Rockville Pike, Bethesda, MD 20814, by February 19, 1988.** See enclosed information for guidance on preparation of slides.

Super 8mm and video projectors or monitors will not be made available.

Motion picture films, not to exceed 5 minutes in length, are permitted in slide sessions provided author submits with the abstract a written justification that the film will enhance presentation.

Audiovisual equipment is not permitted in the poster sessions.

Withdrawals

Requests for abstract withdrawal must be received by December 28, 1987. **No change in the final Program or in the Abstract volumes will be possible after December 28.**

DEADLINE DATES

As soon as possible . . .

Make airline reservations.
Request additional forms.

December 7, 1987 . . .

Request institutional exhibit space.
Receipt expense-sharing/child care services card.
Request meeting space.

December 8, 1987 . . .

Receipt of abstract original, two photocopies, program confirmation card, and $25 abstract handling fee.

December 28, 1987 . . .

Request withdrawal of abstract.

March 2, 1988 . . .

Receipt of advance registration.

April 4, 1988 . . .

Receipt of housing application.

April 15, 1988 . . .

Receipt of Placement Service advance registration.

April 28, 1988 . . .

Request refund of advance registration if unable to attend.

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RULES FOR PRESENTATION OF PAPERS

1. An individual may be first author of and present only one volunteered scientific paper. This may be in either a slide, minisymposium, ASBMB afternoon symposium, or poster session. This rule applies to all regardless of the number of Society memberships held by the first author. Sponsorship or coauthorship of additional abstracts is permitted; see Rule 5 below.
2. Only the first-named author may present a paper in a slide session, minisymposium, or ASBMB afternoon symposium. Any exception to this rule must have prior approval of the Executive Officer of the Society to which the abstract is submitted.
3. All volunteer papers scheduled in slide sessions are limited to 10 minutes for presentation and 5 minutes for discussion.
4. Authors who are invited to present extended talks at plenary lectures, symposia, minisymposia, ASBMB afternoon symposia, panel discussions, special sessions (including the session "Teaching Materials and Methods") do not lose their privilege of being first author on abstracts for poster or slide sessions.
5. Each abstract form must be signed by a member of a FASEB Society or a Guest Society, either as author or sponsor. Such signature will be considered assurance of adherence to the rules and of the merit of the sponsored presentation.

   Special membership categories other than Regular or Full members: Please note the following list of those who may/may not sign the abstract form:

Society	Type of Member	As Author	As Sponsor (Non-author)
APS	Associate	Yes	No
	Student	No	No
ASBMB	Associate	Yes	No
ASPET	Affiliate	Yes	No
	Student	No	No
AAP	Trainee	No	No
AIN	Associate	Yes	No
AAI	Trainee	No	No
SEBM	Associate	Yes	No
	Student	No	No

6. Each abstract must be accompanied by a $25 handling fee. This remittance is nonrefundable.

GUIDING PRINCIPLES IN THE CARE AND USE OF ANIMALS

All investigations involving humans and animals reported in abstracts must have been conducted in conformance with guidelines for experimental procedures as set forth in the Declaration of Helsinki and FASEB's "Guiding Principles in the Care and Use of Animals," page 20.

TEACHING MATERIALS AND METHODS PROGRAM

The Teaching Materials and Methods Program provides a forum for the presentation of new educational materials and methods by members of all FASEB Societies. A Learning Resources Center, located near the exhibit area, will be available for the display of new curricula, media, or techniques through poster presentations, table exhibits, computer demonstrations, and audiovisual facilities.

Individuals or institutions wishing to participate must submit an abstract, specifying the "Teaching Materials and Methods" topic (#945) in the Topic Category Selection block on the form, and provide an accompanying letter describing the facilities and equipment required. Film must be provided on videotape.

Authors participating in the Teaching Materials and Methods program do not lose their privilege of presenting papers in regular sessions; however, the abstract must be signed by a member of a FASEB or Guest Society.

THEMATIC PROGRAMING

The program will feature four interdisciplinary themes:

Receptors and Growth Factors
Immunopharmacology and Immunotoxicology
Metabolic Regulation
Cardiovascular Disease and Ischemic Injury

Theme symposia, minisymposia, slide and poster sessions will cross Society lines to promote scientific interchange.

From the abstracts submitted on topics related to the themes, a special committee, working with representatives of the Society Program committees, will construct a program of sessions to complement the symposia planned on these topics. An abstract that cannot be accommodated in a thematic session will be programed in a Societal slide or poster session, depending on the author's second and third topic choices.

NOTE: If you prefer to have your abstract programed in one of the thematic programs, you must list a thematic topic as your first choice on the Abstract Form.

Source: https://www.industrydocuments.ucsf.edu/docs/xhvb0000

TOPIC CATEGORY LISTS

The categories in the following pages are for your guidance in selecting topics under which your paper could be programed. Indicate in order of preference the appropriate numbers and titles in the "Category Number & Title" box on the abstract form.

KEY TO SYMBOLS

The first numbers are the topic category number; the suffix number represents the FASEB Society responsible for Programing the topic:

–1 Physiology (APS)	–3 Pharmacology (ASPET)	–5 Nutrition (AIN)
–2 Biochemistry and Molecular Biology (ASBMB)	–4 Pathology (AAP)	–6 Immunology (AAI)

The boldfaced number shown in parentheses following a topic title is a *cross-reference* to a related topic listed elsewhere in a theme or Society list, or within the Unified Societal list. In determining which of one or more similar topics to list as your category number preference on your abstract form, pay particular attention to the programing Society number explained above.

METABOLIC REGULATION

Submit abstracts to appropriate category listed under Nutrition Minisymposia or Biochemistry and Molecular Biology Topic Category List.

CARDIOVASCULAR DISEASE AND ISCHEMIC INJURY

Poster Topics

Code *Category*

200-4 Initiating Mechanisms in Vascular Disease
201-4 Thrombosis and Thrombolysis
202-4 Vasospasm
203-4 Mechanisms of Tissue Repair
204-1 Angiogenesis
205-1 Mechanisms of Ischemic Injury
206-1 Leukocyte-mediated Injury in Ischemia
207-1 Protection of Ischemic Heart
208-1 Electrophysiology of Ischemia

IMMUNOPHARMACOLOGY AND IMMUNOTOXICOLOGY

Slide and Poster Topics

Code *Category*

300-3 Immunopharmacology & immunotoxicology (712, 789)
301-3 Biotransformation: relationship to immunocompetent cells
302-3 Pulmonary pharmacology
303-3 Prostaglandins, leukotrienes & eicosanoids (892)
304-3 Anti-inflammatory drugs (797)
305-3 Colony stimulating drugs
306-3 Immunomodulating drugs (791)
307-3 Drugs for treatment of AIDS (783)
308-3 Neural immunomodulation
309-3 Immunotoxins and antibody directed drugs
310-3 Immediate hypersensitivity (786)
311-3 Lymphocyte activation and inactivation
312-3 Receptor regulation
313-3 Mediators of inflammation (802)
314-3 T cell suppression
315-3 Cytokine actions (799)
316-3 Interleukins (806)
317-3 Complement (785)
318-3 Mast cells and basophils

Source: https://www.industrydocuments.ucsf.edu/docs/xhvb0000

UNIFIED SOCIETAL TOPIC CATEGORY LIST

The boldface number shown in parentheses following a topic title is a cross-reference to a related topic listed elsewhere in a theme or Society list, or within the Unified Societal List. In determining which of one or more similar topics to list as your category number preference on your abstract form, pay particular attention to the programing Society number explained under Key to Symbols.

Code Category

600-3 **Adverse Drug Reactions**

601-1 **Aging (Gerontology)**

602-5 **Aging, Nutritional Aspects (523)**

603-3 **Alcohol**

604-5 **Alcohol, Nutritional Implications (517)**

605-4 **Amyloid**

Amino Acids (see Proteins)

606-4 **Animal Models of Disease**

607-5 **Animal Nutrition and Production (Including Fish) (539)**

Biomedical Engineering

609-1 Control and Stability of Respiration
610-1 Control and Stability of the Circulation
611-1 Biotransport Phenomena
612-1 Physiological Systems Analysis
613-1 Bioelectricity and Electrophysiology
614-1 Bioengineering of the Respiratory System
615-1 Bioengineering of the Circulation

Biomedical Technique: Development and Application

622-4 In situ Hybridization
623-4 Immunocytochemistry
624-4 Computerized Image Analysis

Blood and Blood Components

625-4 Blood Coagulation; Thrombosis (652, 201, 3003)
626-4 Blood; Cells (652, 817, 818)
627-4 Lymphocytes
628-4 Monocytes
629-4 Myelo- and Lymphoproliferative Diseases
631-4 Neutrophils
632-4 Platelets (652, 3004)

633-5 **Bones, Teeth and Minerals (533)**

634-5 **Brain Function, Nutrition Related (520)**

Calcium (533)

635-3 Calcium and Stimulus-Secretion Coupling
636-3 Calcium Antagonists
637-1 Calcium and Muscle Contractility (703)
638-1 Calcium and Membrane Permeability
639-3 Calmodulin and Other Calcium-Binding Proteins (1126)
640-1 Interactions of Calcium and Other Cellular Mediators
641-1 Calcium Homeostasis
642-3 Calcium and Blood-Forming Elements
643-3 Normal Biological Calcifications

Cancer or Neoplasia (850, 880)

644-5 Cancer and Nutrition (522)
645-4 Tumor Biology (3007, 3015, 3018)
646-4 Chemical Carcinogenesis (3017)
647-4 Oncogenes & Viral Carcinogenesis (3016)

648-5 **Carbohydrates (514, 517, 1139)**

649-5 **Carnitine and Taurine (500, 501)**

650-3 **Catecholamines**

Cell and General Physiology

651-1 Plasma and Extracellular Fluid Components
652-1 Cell Biology of White Cells and Platelets (625, 632, 660, 1156)
653-1 Cell Biology of Cultured Cells

Cells: Structure, Function and Injury

654-4 Cytoskeleton
655-4 Heat Shock Proteins
656-4 Ischemic Injury (3002)
657-4 Mechanisms of Cell Injury (203, 3002)
658-4 Membrane Pathology
659-4 Molecular Mechanisms of Cell Injury (3002)
660-4 Phagocytic Cells (652, 3006)
661-4 Structure and Function
662-4 Toxic Injury

Clinical Nutrition

663-5 Maternal and Neonatal Nutrition (503, 505)
664-5 Pediatric Nutrition (503, 505, 534)
665-5 Parenteral and Enteral Nutrition (541, 543, 544))
666-5 Other Clinical Nutrition Topics

671-3 **Clinical Pharmacology**

672-4 **Comparative Pathology**

Comparative Physiology

673-1 Respiration and Acid-Base
674-1 Heart and Circulation
675-1 Temperature Adaptation and Energetics
676-1 Osmotic and Ionic Regulation
677-1 Muscle and Locomotor Adaptation

678-4 **Connective Tissue Physiology and Pathobiology (3005)**

679-3 **Cyclic Nucleotides (1146)**

680-4 **Developmental Pathobiology**

681-3 **Developmental Pharmacology and Toxicology**

682-5 **Diet and Exercise (513)**

683-5 **Diet and Immunity (521)**

684-5 **Dietary Intake (524-526)**

Drug Metabolism and Disposition

689-3 Absorption, Distribution
691-3 Binding
692-3 Biotransformation
693-3 Excretion (744)
694-3 Mechanisms of Microsomal Oxidation
695-3 Metabolism (827)
696-3 Pharmacokinetics
697-3 Relationship to Toxicology

700-3 **Drug-Nutrient Interactions**

701-5 **Energy Requirements and Metabolism (507-513, 1139)**

Endocrines and Reproduction

702-1 Adrenal Cortex
703-3 Calcemic Hormones and Bones (637)
704-1 Development and Differentiation (1172)
705-4 Diabetes Mellitus-Pathobiology (3011)
706-4 Endocrine Diseases
707-3 Endocrine Pharmacology
708-1 Fetal and Neonatal Biology (663)
709-4 Fetal and Neonatal Pathology (663)
710-1 Gestation
711-1 Hypothalamic Hormones
712-1 Immunoendocrinology (300)
713-1 Insulin; Glucagon
714-1 Mammary Gland Biology and Lactation (808, 898)
715-1 Neuroendocrines
716-3 Parathyroid, Calcitonin
717-1 Pituitary
718-1 Reproduction, Ovulation, Capacitation and Fertilization
719-1 Sex Hormones
720-1 Thyroid
721-1 Other Hormones

722-4 **Environmental Pathology**

Environmental, Temperature and Exercise Physiology

723-1 Altitude
724-1 Chronobiology
725-1 Cold Exposure
727-1 Exercise (682)
728-1 Gravitational
729-1 Heat and Sweat
730-1 Hibernation (946)
731-1 Hyperbaria
732-1 Hyperthermia (Fever)
733-1 Hypothermia (946)
735-1 Temperature Regulation (946)

737-5 **Fat Metabolism and Transport (506-512)**

738-5 **Fiber**

739-5 **Food Intake, Composition and Preference (524-526)**

Gastrointestinal and Liver

741-1 Gastrointestinal Hormones
742-1 Gastrointestinal Motility
743-3 Gastrointestinal Pharmacology
744-1 Gastrointestinal Secretion (693)
745-1 Mucosal Transport and Absorption (543)
746-1 Hepatic Function
747-1 Gastrointestinal Neurobiology
748-1 Development and Adaptation
749-1 Pancreas

750-4 **Genetics, Pathobiology**

Heart and Circulation

751-1 Adrenergic Systems (Cardiovascular Effects)
752-3 Antiarrhythmics
753-3 Antihypertensive Drugs
754-1 Arrhythmias
755-4 Atherosclerosis, Pathobiology (506, 3001)
756-1 Blood Pressure
757-1 Blood Volume Regulation
758-1 Capillary Blood Flow
759-1 Capillary Transport
760-1 Cardiac Circulation
761-1 Cardiac Dynamics
762-1 Cardiac Electrophysiology
763-3 Cardiac Muscle Pharmacology
764-1 Cardiac Output
765-3 Cardiotonic Drugs
766-4 Cardiovascular Diseases (515, 200, 3010)
767-3 Cardiovascular Pharmacology
768-1 Cerebral Circulation
769-3 Coronary Pharmacology
770-1 Coronary Physiology (202)
771-1 CV Adrenergic Systems
772-1 Endothelium-dependent Responses
773-3 Hypertension Pharmacology

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FASEB88

72nd Annual Meeting Federation of American Societies for Experimental Biology May 1-5, 1988 Las Vegas, Nevada

Participating Member Societies:

The American Physiological Society
American Society for Biochemistry and Molecular Biology
(formerly American Society of Biological Chemists)
American Society for Pharmacology and Experimental Therapeutics
American Association of Pathologists
American Institute of Nutrition
The American Association of Immunologists

Guest Societies:

Biomedical Engineering Society
Society for Experimental Biology and Medicine
Society for Mathematical Biology

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ABSTRACT MUST BE RECEIVED AT SOCIETY OFFICE BY
TUESDAY, DECEMBER 8, 1987

1988 FASEB ABSTRACT FORM

DO NOT FOLD THIS FORM

Mail to your society of membership
(APS, ASBMB, ASPET, AAP, AIN, AAI)
ASCB members send to ASBMB
BMES, SMB and SEBM members send to APS
9650 Rockville Pike
Bethesda, MD 20814

MAILING ADDRESS OF FIRST AUTHOR
(Please Print in black ink or Type. Provide full name rather than initials.)

Phone: Office _____
Home/Holiday _____

PRESENTATION PREFERENCE (Check one)

☐ Oral ☐ Poster ☐ Indifferent

Final decision regarding presentation format is at the discretion of the programing society.

SELECT CATEGORY NUMBERS & TITLES
(See Minisymposium, ASBMB Afternoon Symposia, and Topic Category Lists)

1. _____ _____
2. _____ _____
3. _____ _____
4. _____ _____

No. Title

If AAI Topic List is Used. Choose *one block only* and list minisymposia choices and poster choices *all from within same block:* **Block #** _____

Is first author graduate student? ☐ Yes ☐ No

Blue lines are printer's cut lines; do not type on or outside of these lines.

IMPORTANT

1. Prepare abstract carefully, on this form only.
2. Also fill out:
   a. Topic category selection
   b. Mailing address of first author
   c. Signature block for member's signature
3. Return to your society of membership by December 8, 1987.
   a. The original typed abstract form
   b. Two photocopies
   c. Abstract handling fee
   d. Program confirmation card
4. See over for complete instructions.

REMITTANCE (NONREFUNDABLE)
ABSTRACT HANDLING FEE $25
Payable to FASEB

All compounds that are designated by code or initial letters in the title must be identified adequately in the abstract, e.g., MJ-1999; 4-(2-isopropylamino-1-hydroxyethyl) methanesulfonanilide hydrochloride.

All investigators must adhere to the guidelines as listed on the reverse of the abstract form.

APS, BMES, SEBM, SMB, ASPET & AIN members only:
Signing member, are you willing to chair a session? ☐ Yes, category # _____

APS, AAP & AIN members only:
☐ Submitted for special Society student or training award. Type of award _____

MEMBER'S AFFILIATION (Check one only):
☐ APS ☐ ASBMB ☐ ASPET ☐ AAP ☐ AIN ☐ AAI ☐ ASCB ☐ BMES ☐ SEBM ☐ SMB

Submission of signed form indicates acceptance of rules including final withdrawal date of December 28, 1987. No exceptions will be made.

_____
Member's Name (Print or type)

_____
Member's Signature

_____
Member's Phone

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UNIFIED RULES FOR PRESENTATION OF PAPERS

1. An individual may be first author of and present only one volunteered scientific paper. This may be in either a minisymposium, ASBMB afternoon symposium, slide or poster session. This rule applies to all regardless of the number of Society memberships held by the first author. Sponsorship or coauthorship of additional abstracts is permitted; see Rule 5 below.
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3. All volunteer papers scheduled in slide sessions are limited to 10 minutes for presentation and 5 minutes for discussion.
4. Authors who are invited to present papers at plenary lectures, symposia, minisymposia, ASBMB afternoon symposia, panel discussions, special sessions (including the session "Teaching Materials and Methods") do not lose their privilege of volunteering abstracts for poster or slide sessions.
5. Each abstract form must be signed by a member of a FASEB Society or a Guest Society, either as author or sponsor. Such signature will be considered assurance of adherence to the rules and of the merit of the sponsored presentation. For listing of special membership categories eligible to sign abstracts, see the Unified Rules summary in the preceding pages.
6. Each abstract must be accompanied by a $25 handling fee. This remittance is nonrefundable.

BEFORE YOU BEGIN PREPARATION OF ABSTRACT

A. Your abstract should be informative, containing: (a) the study's specific objective, unless this is given by the title; (b) brief statements of methods, if pertinent; (c) a summary of the results; (d) the conclusions. It is NOT satisfactory to state: "The results will be discussed."
B. Use short specific titles. Avoid using superfluous words such as: "preliminary studies on," etc.
C. Tables and figures are permitted within this space.
D. Each Abstract Form submitted must be signed by a Society member or Guest Society. Signature provides assurance of adherence to the rules and the scientific validity of the presentation and that all investigations involving humans and animals reported in abstracts must have been conducted in conformance with guidelines for experimental procedures as set forth in the Declaration of Helsinki and FASEB's "Guiding Principles in the Care and Use of Animals."

TYPING INSTRUCTIONS

1. Use a typewriter, preferably electric, with ELITE type. Clean type before using. Use a carbon ribbon, if possible; otherwise, a reasonably new, good quality BLACK ribbon. The same applies to the ribbon in word processor printers. Do not use dot matrix printer.
2. Underline names and initials of all authors. If no author is a member, follow author(s)' name(s) by SPON: and the name of the sponsoring member. See sample.
3. When listing authors from different affiliations, list by author order but no reference marks are needed.
4. DO NOT ERASE. Remember that your abstract will appear in *The FASEB Journal* exactly as you submit it; any erasure, smudges, errors, misspellings, poor hyphenations and deviations from good usage will be reproduced in the published abstract.
5. Do not paste copies of abstracts on the abstract form. This requires special handling.
6. The abstracts are photographed at a reduced size for publication in *The FASEB Journal*. In order to keep your abstract from becoming illegible, do not use type size which is too small.
7. Any special symbols, such as Greek letters, that are not on your typewriter or word processor must be drawn by hand in BLACK ink. Blue ink or type does not photograph.
8. When using abbreviations for compounds, spell out in full the first mention, followed by the abbreviation in parentheses.
9. No asterisks are necessary.
10. **Fill in all requested information on the Abstract Form.**

SAMPLES TO SHOW STYLE

HUMAN NEUTROPHIL MIGRATION IS ENHANCED BY BETA-ENDORPHIN.
C. Simpkins, C. Dickey and M. Fink (SPON: L. Homer).
Naval Med. Res. Inst., Bethesda, MD 20814.
We used a serum-free chemotaxis-under-agarose assay to measure the effect of ß endorphine (E) on directed migration by human neutrophils (HN) toward.....

SODIUM INFLUX ACROSS THE BLOOD-BRAIN BARRIER (BBB) CONTRIBUTES TO BRAIN INTERSTITIAL FLUID (ISF) VOLUME REGULATION IN THE LITTLE SKATE (Raja erinacea). K. Mackie, M. DePasquale and H. F. Cserr. Yale Univ. Sch. of Med., New Haven, CT 06510 and Brown Univ., Providence RI 02912.
Brain ISF volume is determined by the total tissue content of extracellular ion, chiefly Na and Cl. The skate brain responds to hypernatremic dehydration by loading NaCl.....

Practice typing the abstract in a rectangle 5¼" × 4¾" on plain paper before using the special form.

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REQUEST FOR FORMS FASEB 1988 Meeting, May 1-5, 1988
DEADLINE FOR RECEIPT OF ABSTRACTS: Tuesday, December 8, 1987

ABSTRACT BOOKLET **cannot be sent unless** Society of submission is circled

APS ASBMB ASPET AAP AIN AAI

	QUANTITY
Members of ASCB - Request ASBMB Booklet	
Members of BMES, SMB and SEBM - Request APS Booklet	
Abstract Booklet containing all forms and instructions	
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C. Simpkins, C. Dickey and M. Fink (SPON: L. Homer).
Naval Med. Res. Inst., Bethesda, MD 20814.
We used a serum-free chemotaxis-under-agarose assay to measure the effect of β endorphine (E) on directed migration by human neutrophils (HN) toward.....

SODIUM INFLUX ACROSS THE BLOOD-BRAIN BARRIER (BBB) CONTRIBUTES TO BRAIN INTERSTITIAL FLUID (ISF) VOLUME REGULATION IN THE LITTLE SKATE (Raja erinacea). K. Mackie, M. DePasquale and H. F. Cserr. Yale Univ. Sch. of Med., New Haven, CT 06510 and Brown Univ., Providence RI 02912.
Brain ISF volume is determined by the total tissue content of extracellular ion, chiefly Na and Cl. The skate brain responds to hypernatremic dehydration by loading NaCl.....

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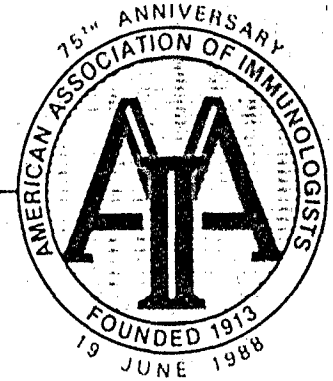

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776-1 Myocardial Metabolism
777-1 Neonatal Circulation
778-1 Peripheral Circulation
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780-1 Splanchnic Circulation
781-3 Histamine and Antagonists

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962-1 Aldosterone Secretion
963-1 Renal-Cardiovascular Integration
964-1 Atrial Netriuretic Peptides

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1000-2	Intercellular Signalling/Chemotaxis
1001-2	Mechanisms of Intracellular Protein Breakdown
1002-2	Anchoring Membrane Proteins by Glycosyl-Phosphatidyl-Inositol
1003-2	Folding and Stability of Mutant Proteins
1004-2	Mechanism and Regulation of Fatty Acid Synthesis
1005-2	Glucose Transport Proteins: Structure, Function and Regulation
1006-2	Mechanisms of Gene Rearrangement Reactions
1007-2	Protein Engineering: Three Case Studies
1008-2	RNA Enzymes
1009-2	mRNA Splicing in Yeast
1010-2	Oxy and Peroxy Radicals in P-450-Catalyzed Reactions
1011-2	Transcription of Plant Organellar and Nuclear Genes
1012-2	Phospholipases
1013-2	Mechanisms of Enzymes
1014-2	Differentiation-Induced Gene Expression
1015-2	Protein Kinases
1016-2	Glycoprotein Biosynthesis
1017-2	Heat-Shock Response
1018-2	Protease Inhibitors
1019-2	Enzyme-DNA Interactions, Metalloproteins: Structure and Mechanisms
1020-2	NMR Studies of Metabolism *in vivo*
1021-2	Mechanisms of Membrane Assembly and Protein Secretion
1022-2	Biochemistry and Functions of the Ether-Linked Lipids
1023-2	Role of Lipids in Signal Transduction
1024-2	Developmental Molecular Biology

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Code	*Category*
1100-2	DNA:Replication, Recombination, and Modification
1101-2	DNA: Biochemistry and Genetics of Repair
1102-2	Chromatin Structure and Associated Proteins
1103-2	Structure of Eukaryote Genes and Genomes
1104-2	Eukaryotic Gene Expression
1105-2	Molecular Genetics of Prokaryotes
1106-2	Molecular Cloning: Vectors and Techniques
1107-2	Chemistry of DNA and RNA
1108-2	Synthesis and Processing of RNA
1109-2	Virus Structure and Replication
1110-2	Oncogenes
1111-2	Ribosomes
1112-2	Protein Synthesis—Mechanism (830)
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1114-2	Proteins and Polypeptides—Conformation, Interactions (830)
1115-2	Protein Sequences (830)
1116-2	Chemical Modification of Proteins (830)
1117-2	Enzymes—Mechanisms of Action
1118-2	Enzymes—Kinetics
1119-2	Enzymes—Multienzyme Complexes
1120-2	Enzyme Regulation and Allosterism
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1128-2	Metalloproteins
1129-2	Hemeproteins and Porphyrins
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1131-2	Photosynthesis and Photorespiration
1132-2	Oxygenases
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1152-2	Toxins
1153-2	Biochemical Pharmacology
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1155-2	Neurochemistry (870)
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1158-2	Cell Walls
1159-2	Membranes-Synthesis (813, 814)
1160-2	Cell Surfaces (813)
1161-2	Membranes-Structure, Function Relationships (813, 816)
1162-2	Transport (819, 821)
1163-2	Cell Surface Receptors-Markers (813)
1164-2	Hormone Receptors (899)
1165-2	Monoclonal Antibodies
1166-2	Histocompatibility Antigens (2032-2037)
1167-2	Lectins, Mitogens
1168-2	Exocytosis, Secretion
1169-2	Endocytosis, Phagocytosis, Chemotaxis, Cell Motility (798)
1170-2	Subcellular Structures—General
1171-2	Non-Muscle Contractile and Cytoskeletal Systems
1172-2	Development and Differentiation (704)
1173-2	Physical and Physicochemical Methods, Instrumentation
1174-2	Peptide Growth Factors
1175-2	Complement (2074-2077)
1176-2	Microcomputer Applications

Source: https://www.industrydocuments.ucsf.edu/docs/xhvb0000

IMMUNOLOGY TOPIC CATEGORY LIST

AAI will schedule abstracts in minisymposia, poster workshops and poster sessions only. Contributors who wish to have their abstract considered for an Immunology minisymposium or poster workshop should select the appropriate subject block and minisymposia and the most appropriate poster session topics within that same block. Only about one-third of the volunteered abstracts will be scheduled in minisymposia. Abstracts not programed in minisymposia or poster workshops will be assigned to appropriate poster sessions.

Authors should also consult Unified Societal Topic Category List for related sessions.

BLOCK A — B LYMPHOCYTE DEVELOPMENT, ACTIVATION, AND REGULATION

(*Chair:* K. Bottomly)

Minisymposia

2000-6 Immunoglobulins: Gene and Protein Structure. *Chair:* Ursula Storb
2001-6 B Cell Development. *Chair:* D.E. Mosier
2002-6 Mechanisms of B Cell Activation. *Chair:* A.L. Defranco
2003-6 Regulation of B Cell Growth and Differentiation. *Chair:* R.J. Hodes
2004-6 Expression of Immunoglobulin Genes. *Chair:* A. Bothwell

Related Poster Sessions

2005-6 Immunoglobulins: Gene and Protein Structure
2006-6 B Cell Development
2007-6 Mechanisms of B Cell Activation
2008-6 Regulation of B Cell Growth and Differentiation
2009-6 Expression of Immunoglobulin Genes

BLOCK B — T CELLS

(*Chair:* C.A. Janeway, Jr.)

Minisymposia

2010-6 T Cell Receptor 1 (γ:δ): Structure and Function. *Chair:* S. Tonegawa
2011-6 T Cell Receptor 2 (α:β): Structure and Function. *Chair:* M. Davis
2012-6 T Cell Development. *Chair:* Ada M. Kruisbeek
2013-6 T Cell Activation. *Chair:* Ellen V. Rothenberg
2014-6 T Cell Surface Molecules. *Chair:* Jane R. Parnes
2015-6 T Cell Interactions. *Chair:* R.H. Schwartz
2016-6 T Cell Regulation of the Immune Response. *Chair:* C.A. Janeway, Jr.

Related Poster Sessions

2017-6 T Cell Receptor 1 (γ:δ): Structure and Function
2018-6 T Cell Receptor 2 (α:β): Structure and Function
2019-6 T Cell Development
2020-6 T Cell Activation
2021-6 T Cell Surface Molecules
2022-6 T Cell Interactions
2023-6 T Cell Regulation of the Immune Response

BLOCK C — REGIONAL IMMUNOLOGY

(*Chair:* J.W. Streilein)

Minisymposia

2024-6 Regional Specialization in Antigen Presentation. *Chair:* J.W. Streilein
2025-6 Lymphocyte Migration Pathways. *Chair:* Y.H. Chin
2026-6 Regionally Distinct Effector Function. *Chair:* Joan Stein-Streilein

Poster Workshops/Discussions

2027-6 Regional Differences in Immune Regulation. *Chair:* J.Y. Neiderkorn
2028-6 Disorders of Regional and Local Immunity. *Chair:* T. Wegmann

Related Poster Sessions

2029-6 Regional Specialization in Antigen Presentation
2030-6 Lymphocyte Migration Pathways
2031-6 Regionally Distinct Effector Function

BLOCK D — THE MAJOR HISTOCOMPATIBILITY COMPLEX AND ANTIGEN PRESENTATION (1166)

(*Chair:* Laurie H. Glimcher)

Minisymposia

2032-6 Cell Biology and Protein Chemistry of MHC Molecules. *Chair:* D.J. McKean
2033-6 Antigen Processing and Antigen Presentation. *Chair:* P.M. Allen
2034-6 Regulation of HMC Genes. *Chair:* L.H. Glimcher and Dinah S. Singer

Related Poster Sessions

2035-6 Cell Biology and Protein Chemistry of MHC Molecules
2036-6 Antigen Processing and Antigen Presentation
2037-6 Regulation of MHC Genes

BLOCK E — LYMPHOKINES AND CYTOKINES

(*Chair:* J. Oppenheim)

Minisymposia

2038-6 T and B Cell Activation Factors. *Chair:* F.D. Finkelman
2039-6 Receptors and Post-Receptor Intracellular Events. *Chair:* R.J. Robb
2040-6 Cytokines: Genes and Protein Structure. *Chair:* D. Cosman
2041-6 In Vivo Effects of Cytokines. *Chair:* J.U. Gutterman

Poster Workshop/Discussion

2042-6 Cytokine Cascades and Interactions. *Chair:* Lois B. Epstein and S. Cohen

Related Poster Sessions

2043-6 T and B Cell Activation Factors
2044-6 Receptors and Post-Receptor Intracellular Events
2045-6 Cytokines: Genes and Protein Structure
2046-6 In Vivo Effects of Cytokines

BLOCK F — LYMPHOCYTE AND MACROPHAGE EFFECTOR FUNCTION

(*Chair:* P. Henkart)

Minisymposia

2047-6 Lymphocyte-Mediated Cytolysis: Pathway and Mechanisms. *Chair:* J.H. Russell
2048-6 NK Cells and Other Natural Effector Cells. *Chair:* C. Reynolds
2049-6 Macrophage Immunobiology. *Chair:* S.W. Russell
2050-6 Second Messengers in Lymphocyte Function. *Chair:* J.C. Cambier

Related Poster Sessions

2051-6 Lymphocyte-Mediated Cytolysis: Pathways and Mechanisms
2052-6 NK Cells and Other Natural Effector Cells
2053-6 Macrophage Immunobiology
2054-6 Second Messengers in Lymphocyte Function

BLOCK G — INFLAMMATION

(*Chair:* C. Cochrane)

Minisymposia

2055-6 Leukocyte Stimulation: Receptor, Membrane and Metabolic Events: Part I. *Chair:* G. Bokoch
2056-6 Leukocyte Stimulation: Receptor, Membrane and Metabolic Events: Part II. *Chair:* A. Tauber
2057-6 Interactions Between Leukocytes and other Cells. *Chair:* R.F. Todd

Related Poster Sessions**

2058-6 Leukocyte Stimulation: Receptor, Membrane and Metabolic Events: PART I
2059-6 Leukocyte Stimulation: Receptor, Membrane and Metabolic Events: PART II
2060-6 Interactions Between Leukocytes and Other Cells

**Following their individual delivery, *all* poster papers will be discussed in a common workshop chaired by Dr. Cochrane.

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BLOCK H — TUMOR IMMUNOLOGY

(*Chair:* P. Greenberg)

Minisymposia

2061-6 Oncogenes and Tumor-Associated Antigens. *Chair:* K.E. Hellström

2062-6 Immune Response to Tumors. *Chair:* R.J. North

2063-6 Effects of Lymphokines, Antibodies, and Immunotherapy. *Chair:* M.A. Cheever

2064-6 Effector Cells in Anti-Tumor Immunity. *Chair:* F.H. Bach

Related Poster Sessions

2065-6 Oncogenes and Tumor-Associated Antigens

2066-6 Immune Response to Tumors

2067-6 Effects of Lymphokines, Antibodies, and Immunotherapy

2068-6 Effector Cells in Anti-Tumor Immunity

BLOCK I — IMMEDIATE HYPERSENSITIVITY

(*Chair:* M. Kaliner)

Minisymposia

2069-6 Mechanisms and Modulation of Mediator Release. *Chair:* Anne Kagey-Sobotka and M.A. Beaven

2070-6 IgE: IgE Receptors and IgE Production. *Chair:* K. Ishizaka and Barbara Baird

Poster Workshop/Discussion

2071-6 Mast Cells, Basophils and Mediators of Immediate Hypersensitivity. *Chair:* M. Kaliner and S. Wasserman

Related Poster Sessions

2072-6 Mechanisms and Modulation of Mediator Release

2073-6 IgE: IgE Receptors and IgE Production

BLOCK J — COMPLEMENT (1175)

(*Chair:* M.M. Frank)

Minisymposia

2074-6 Complement Proteins in Control of Cellular Functions. *Chair:* Moon L. Shin

2075-6 Immunochemistry and Molecular Biology of Complement Proteins. *Chair:* M.E. Medof

Related Poster Sessions

2076-6 Complement Proteins in Control of Cellular Functions

2077-6 Immunochemistry and Molecular Biology of Complement Proteins

BLOCK K — MICROBIAL IMMUNITY AND PARASITOLOGY

(*Chair:* M. Oldstone)

Minisymposia

2078-6 Autoimmunity and Infection. *Chair:* R. Williams

2079-6 Immune Suppression and Infection. *Chair:* M. Buchmeier

2080-6 Molecular Approaches to Vaccination. *Chair:* E. Paoletti

2081-6 Microbial-Immune Response Interactions. *Chair:* R. Welsh

Related Poster Sessions

2082-6 Autoimmunity and Infection

2083-6 Immune Suppression and Infection

2084-6 Molecular Approaches to Vaccination

2085-6 Microbial-Immune Response Interactions

BLOCK L — CLINICAL AND PRE-CLINICAL IMMUNOLOGY

(*Chair:* M. Cooper)

Minisymposia

2086-6 Human T Cells. *Chair:* A. Weiss

2087-6 Human Bone Marrow Transplantation. *Chair:* R.J. O'Reilly

2088-6 Pathogensis of Autoimmune Disease. *Chair:* R.S. Schwartz

2089-6 Fc Receptors on Human Blood Cells. *Chair:* C.L. Anderson

2090-6 Immune Deficiency States. *Chair:* R.S. Geha

2091-6 Human B Cell Repertoire. *Chair:* M.D. Cooper

Related Poster Sessions

2092-6 Transplantation Immunology

2093-6 Autoimmunity

2094-6 Immune Deficiency States

Source: https://www.industrydocuments.ucsf.edu/docs/xhvb0000

CHECK LIST FOR PREPARATION OF ABSTRACT AND RELATED FORMS FOR FASEB 1988 MEETING

Please check all material carefully against the list before mailing as indicated on the Abstract Form.

TO THE TYPIST: The abstract you are preparing to type will be published in an edition of over 20,000 copies from the image you make. The care you invest in typing will be repaid many times in the increased ability of users to read the material easily.

If you have word processing equipment, please consider preparing an abstract with a justified right margin. This usually produces a higher-quality original image and often permits the addition of a few more words in the same space.

_____ Have you used the 1988 Abstract Form?
_____ Is abstract correctly and neatly typed within designated space? Photocopies or pasted abstracts cannot be accepted.
_____ If no author is a member have you typed (SPON: *name*) after name of last author to indicate sponsoring member?
_____ Have you named the school or institution *where work was done*, and included the zip code after city/state?
_____ Have you indicated the source of research support?
_____ Have you as a member, or has some other sponsoring member, signed the Abstract Form, and supplied sponsor's telephone number including area code?
_____ Have you indicated where appropriate on the Abstract Form the numbers and titles of topics, in order of preference, under which your paper could be presented? (See Topic Category List.)
_____ Have you indicated your presentation format preference?
_____ Have you adequately identified in the abstract new chemical compounds and those designated by a code number?
_____ Does the title of your abstract accurately define the work discussed? (Titles will be used to produce a permuted word index for the Abstract Volumes.)
_____ Have you given the mailing address and telephone number of the first author?
_____ If submitting an abstract for the APS Caroline tum Suden Professional Opportunity Award, or the AAP Experimental Pathologist in Training Award, or the AIN Graduate Student Research Award, have you checked the appropriate space in the signature block on the Abstract form?
_____ Have you printed author name and address on the Program Confirmation Card?
_____ Have you correctly completed the Abstract Reprint Order Card, if you wish to purchase reprints?
_____ Have you enclosed your Abstract Handling Fee of $25?
_____ If you wish to show a short film during delivery of your 10-minute paper, have you attached a letter explaining why film will substantially enhance your slide presentation?

MAILING INSTRUCTIONS

Mail to Society office in envelope provided
FOR RECEIPT ON OR BEFORE TUESDAY, DECEMBER 8, 1987

1. 1988 Abstract Form, fully completed, and two copies
2. Program Confirmation Card, addressed to first author
3. Check for $25, payable to FASEB, for abstract handling fee
4. Abstract Reprint Order Card, if reprints desired
5. Return postcard for acknowledgment of abstract, if desired

Mail to FASEB Office of Scientific Meetings, 9650 Rockville Pike, Bethesda, MD 20814:

1. Order card, if you wish additional forms
2. Institutional exhibit application (deadline December 7, 1987)
3. Special function application (deadline December 7, 1987)
4. Expense-sharing/childcare card (deadline December 7, 1987)
5. Advance registration card with remittance (deadline March 2, 1988)
6. Request for projection equipment other than for 2" x 2" slides (deadline February 19, 1988)

Mail to FASEB Housing Bureau, 3150 Paradise Road, Las Vegas, Nevada 89109

1. Hotel reservation form **(before April 4, 1988)**

FASEB SOCIETY OFFICERS

American Physiological Society — Dr. Martin Frank, Executive Secretary-Treasurer
American Society for Biochemistry and Molecular Biology — Mr. Charles Hancock, Executive Officer
American Society for Pharmacology and Experimental Therapeutics — Mrs. Kay A. Croker, Executive Officer
American Association of Pathologists — Dr. Harold Waters, Executive Officer
American Institute of Nutrition — Dr. Richard G. Allison, Executive Officer
American Association of Immunologists — Dr. Joseph F. Saunders, Executive Officer

Members of ASCB: Mail abstracts to the American Society for Biochemistry and Molecular Biology
Members of BMES, SMB and SEBM: Mail abstracts to the American Physiological Society

SOCIETY MAILING ADDRESSES

The mailing address for all FASEB Societies is:
9650 Rockville Pike, Bethesda, MD 20814

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RECOMMENDATIONS FROM THE DECLARATION OF HELSINKI

I. Basic Principles

1. Clinical research must conform to the moral and scientific principles that justify medical research and should be based on laboratory and animal experiments or other scientifically established facts.

2. Clinical research should be conducted only by scientifically qualified persons and under the supervision of a qualified medical man.

3. Clinical research cannot legitimately be carried out unless the importance of the objective is in proportion to the inherent risk to the subject.

4. Every clinical research project should be preceded by careful assessment of inherent risks in comparison to foreseeable benefits to the subject or to others.

5. Special caution should be exercised by the doctor in performing clinical research in which the personality of the subject is liable to be altered by drugs or experimental procedure.

II. Clinical Research Combined with Professional Care

1. In the treatment of the sick person, the doctor must be free to use a new therapeutic measure, if in his judgment it offers hope of saving life, reestablishing health, or alleviating suffering.

If at all possible, consistent with patient psychology, the doctor should obtain the patient's freely given consent after the patient has been given a full explanation. In case of legal incapacity, consent should also be procured from the legal guardian; in case of physical incapacity the permission of the legal guardian replaces that of the patient.

2. The doctor can combine clinical research with professional care, the objective being the acquisition of new medical knowledge, only to the extent that clinical research is justified by its therapeutic value for the patient.

III. Non-Therapeutic Clinical Research

1. In the purely scientific application of clinical research carried out on a human being, it is the duty of the doctor to remain the protector of the life and health of that person on whom clinical research is being carried out.

2. The nature, the purpose and the risk of clinical research must be explained to the subject by the doctor.

3a. Clinical research on a human being cannot be undertaken without his free consent after he has been informed; if he is legally incompetent, the consent of the legal guardian should be procured.

3b. The subject of clinical research should be in such a mental, physical and legal state as to be able to exercise fully his power of choice.

3c. Consent should, as a rule, be obtained in writing. However, the responsibility for clinical research always remains with the research worker; it never falls on the subject even after consent is obtained.

4a. The investigator must respect the right of each individual to safeguard his personal integrity, especially if the subject is in a dependent relationship to the investigator.

4b. At any time during the course of clinical research the subject or his guardian should be free to withdraw permission for research to be continued.

The investigator or the investigating team should discontinue the research if in his or their judgment, it may, if continued, be harmful to the individual.

GUIDING PRINCIPLES IN THE CARE AND USE OF ANIMALS

Approved by the Council of The American Physiological Society[1]

Animal experiments are to be undertaken only with the purpose of advancing knowledge. Consideration should be given to the appropriateness of experimental procedures, species of animals used, and number of animals required.

Only animals that are lawfully acquired shall be used in the laboratory, and their retention and use shall be in every case in compliance with federal, state and local laws and regulations, and in accordance with the NIH Guide.[2]

Animals in the laboratory must receive every consideration for their comfort; they must be properly housed, fed, and their surroundings kept in a sanitary condition.

Appropriate anesthetics must be used to eliminate sensibility to pain during all surgical procedures. Where recovery from anesthesia is necessary during the study, acceptable technique to minimize pain must be followed. Muscle relaxants or paralytics are not anesthetics and they should not be used alone for surgical restraint. They may be used for surgery in conjunction with drugs known to produce adequate analgesia. Where use of anesthetics would negate the results of the experiment such procedures should be carried out in strict accordance with the NIH Guide.[2] If the study requires the death of the animal, the animal must be killed in a humane manner at the conclusion of the observations.

The postoperative care of animals shall be such as to minimize discomfort and pain, and in any case shall be equivalent to accepted practices in schools of veterinary medicine.

When animals are used by students for their education or the advancement of science, such work shall be under the direct supervision of an experienced teacher or investigator. The rules for the care of such animals must be the same as for animals used for research.

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[1] Revised 1980.

[2] Guide for the Care and Use of Laboratory Animals, DHEW Publication No. (NIH) 80-23, Revised 1978, Reprinted 1980, Office of Science and Health Reports, DRR/NIH, Bethesda, MD 20205.

Source: https://www.industrydocuments.ucsf.edu/docs/xhvb0000

INSTRUCTIONS FOR POSTER PRESENTATIONS

Abstracts scheduled for presentation in poster sessions will be grouped by topic, numbered and listed in the program, and published in the abstract book in the usual manner. In addition, program listings will specify time when your colleagues may expect you to be at your assigned space to discuss your work.

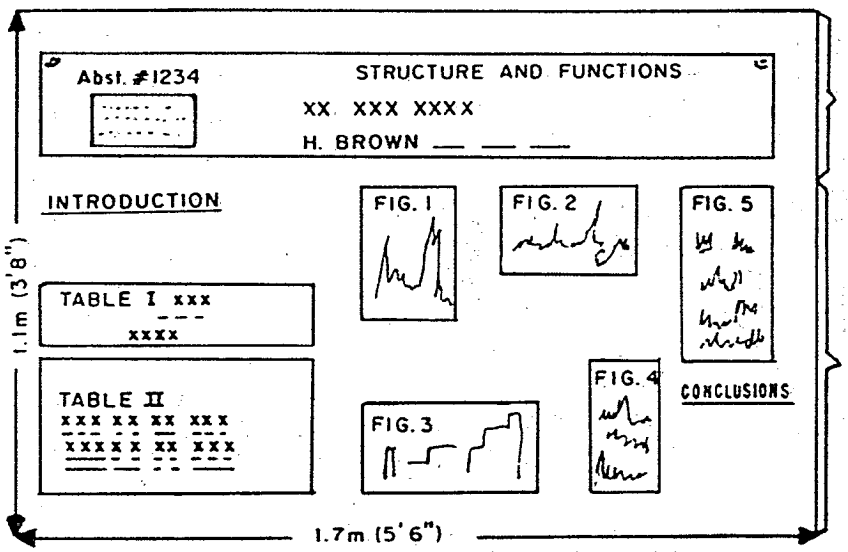
Mount your posters on your assigned board during the half-hour immediately preceding your session. Posters should be in place for the full session period as scheduled by the programing Society. Society poster session hours vary; refer to your Program Confirmation card when received. The Program Confirmation card will also stipulate the minimum time within the session period that you should be at your poster board. Poster material must be removed no later than a half-hour after the close of the session.

The poster board surface area is 3'8" high and 5'6" wide. Prepare for the top of your poster space a label indicating the program number of your abstract, its title and authors. The lettering for this section should be not less than 1" high. A copy of your abstract, typed in large type, should be posted in the upper left-hand corner of the poster board.

All illustrations should be made beforehand. Keep in mind that your illustrations must be read by interested scientists from distances of about 3' or more. Charts, drawings and illustrations might well be similar to those you would otherwise use in making slides; preferably cruder and more heavily drawn. They need not, in fact should not, be "arty." Simple use of color can add emphasis effectively. Do not mount them on heavy board because these may be difficult to keep in position on the poster boards. Hand lettered material should contain appropriately heavy lettering at least 3/8" high. Shade block letters where possible. Typed material should be typed on a Bulletin (large type) typewriter, if possible. Keep illustrative material simple. You might also find it useful to have on hand a tablet of suitable sketch paper (9" × 12") as well as one or two felt marking pens.

Bring Your Own Push-Pins or Thumbtacks.

"Poster Assistants" will help you with any information or technical assistance you may need. A suggested arrangement of a poster is illustrated below. See reverse for additional information.



Provide a label containing the abstract number, title, and name(s) of author(s) to identify your presentation easily.

Post copy of your abstract.

Prepare and bring with you to the meeting all illustrations needed for your presentation—figures, tables, schemes, equations, etc.

Mount your label and illustrations on the fiberboard by means of drawing pins (thumbtacks). Bring your own pins; you will need approximately 50.

Please do not write or draw on the Poster Boards. Blackboards will be available in the poster area.

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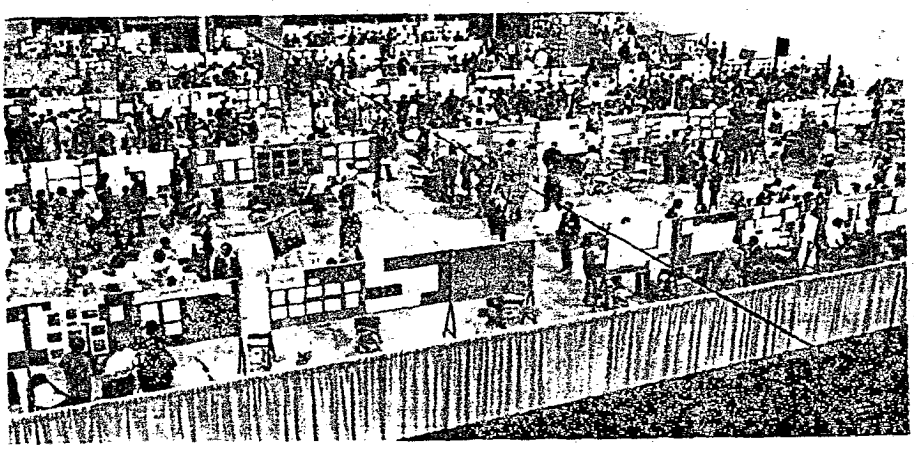
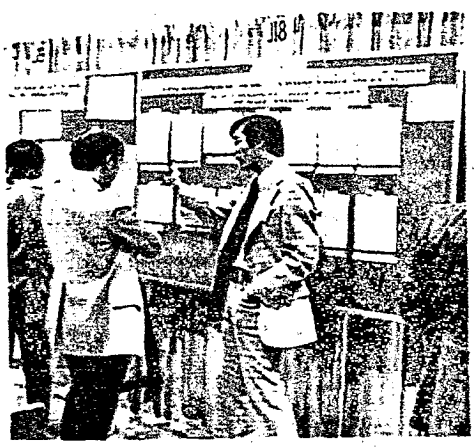
SUGGESTIONS FROM AUTHORS WHO HAVE PARTICIPATED IN POSTER SESSIONS

- A short and legible "introduction" poster and a "summary of conclusions" poster are helpful to the attendee.
- A copy of your abstract (typed in large type) should be posted for the information of those who study your display when you are not in attendance.
- Keep text and figure legends short, but do not omit them.
- Simple use of color can add emphasis effectively.
- Above all, use large print. Shade block letters where possible.
- Roll poster materials and insert in a large mailing tube for ease in transporting them to the meeting.





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FEATURES OF EFFECTIVE SLIDES AT SCIENTIFIC MEETINGS

It is generally agreed that slide quality at scientific meetings is uneven, and that ineffective slides greatly reduce the impact of papers. In the interest of improving the effectiveness of papers presented at meetings, the following list of features of effective slides, based in part on measurements made at meetings, is presented for your consideration.

1. CLEAR PURPOSE. An effective slide should have a main point and not just be a collection of available data. If this central theme of the slide cannot be readily identified, the paper probably would be improved by revising or deleting the slide.

2. READILY UNDERSTOOD. The main point should catch the attention of the audience immediately, and should be understood soon thereafter. While trying to figure out what the slide has to say, the audience is not paying full attention to what the speaker is saying, and this obviously should be minimized.

3. SIMPLE FORMAT. With a simple, uncluttered format, the slide is relatively easy to design and directs the attention of the audience to the main point.

4. FREE OF NONESSENTIAL INFORMATION. Information not directly supporting the main point of the slide and not important enough to be specifically mentioned in the verbal text probably would be better held in reserve for questions rather than included in the slide.

5. DIGESTIBLE. There is a practical limit to how many bits of new information one can reasonably expect the audience to assimilate per minute, and investigators risk confusing and alienating the audience when they exceed this limit. With an average of 7 slides in a 10-minute paper, there is available only 1+ minutes per slide. The above risk is minimized if the information presented in a slide is restricted to that which can be explained extemporaneously to the uninitiated in the allowed length of time. Fast reading of a prepared text is not an adequate substitute for judicious editing.

6. UNIFIED. A slide is most effective when all information is organized around a single central theme so that the slide tells a unified story.

7. GRAPHIC FORMAT. In graphs, qualitative relationships are emphasized at the expense of precise numerical values, while in tables the reverse is true. Hence, if a qualitative statement such as "flow rate increased markedly immediately after stimulation," can be considered to be the main point of the slide, the purpose is better served using a graphic format. A good place for detailed, tabular data is in a slide or two held in reserve in case of questions.

8. DESIGNED FOR THE CURRENT ORAL PAPER. Particularly to be avoided is the comprehensive data table designed for another purpose and containing many columns and rows of information not directly relevant to the current paper. The audience is not interested in how much work was done, only in evidence and conclusions relating directly to the subject of the paper.

9. EXPERIMENTAL. There is no time in a 10-minute paper to teach standard technology. Unless the purpose of the paper is to examine this technology, it is best mentioned to the minimum extent necessary to maintain an unbroken logical development of the theme of the paper.

10. VISIBLE. Most hotel meeting rooms were not designed with projection in mind. Due to low ceilings, the heads of those in front often block the lower part of the screen from view for those in the rear. As a result, horizontal slides, which make maximum use of the top of the screen, are more effective than vertical slides. Furthermore, if the projector is aligned properly for horizontal slides, vertical slides extend beyond the borders of the screen. Time is wasted and the train of thought is broken if the projector is adjusted for each vertical slide and readjusted for the next horizontal slide. **Hence, projectionists are instructed not to adjust projectors for vertical slides and investigators are advised not to use vertical slides under any circumstances.**

11. LEGIBLE. In a recent study, measurements of apparent projected image size were made from the rear seats of five national scientific meetings in major hotels. For those seated at the rear, the eye-screen distance averaged 10.5x the projected image width in large as well as small meeting rooms. This ratio is useful in that it permits one to evaluate the projected legibility of illustrations prior to the meeting, when problems can still be rectified. **This is accomplished by viewing the original figure, the slide, or the projected image from a distance of 10.5 times its width.** For example, this ratio gives viewing distances of 14 and 34 inches for 2" x 2" and 3¼" x 4" slides respectively, and a surprising 10 feet for a drawing 11 inches wide. Anything not legible cannot be trusted to project well at meetings.

Correlating these measurements with measurements from a standard eye chart it was calculated that the minimum legible letter size from rear seats (20/25 acuity) is 1/57 the projected image width. **For typed illustrations, this**

Source: https://www.industrydocuments.ucsf.edu/docs/xhvb0000

translates to an area for typed information (allowing for margins) 42 spaces wide by 14 single space lines high. For optimum legibility use modern, bold type (Sans Serif type is easier to read than Roman or Script type), and double-space. Use capital letters. A carbon ribbon is preferred; fabric ribbon typing will often appear fuzzy and out of focus when projected. For illustrations to be drawn by a medical illustrator, it is suggested that the width of the figure plus margins be divided by 57 (or less, for a safety margin) and that this minimum letter and number height be marked on the rough figure as a guide for the illustrator.

Inspecting the illustration up close for legibility can be very misleading and is not recommended. Also not recommended is test projecting in a lecture theatre with a screen large enough to permit the projector to be placed at the back of the room. This situation is different from that in a typical meeting, where the projector is in the middle of the audience, and results in an appreciably larger apparent image size at the rear seats.

With regard to photomicrographs, legibility problems can be severe. Bold line drawings or magnified portions of photomicrographs are possible solutions, with the original illustrations held in reserve as either a slide or a print in case of questions.

Finally, with regard to graphs, a few large, widely spaced numbers on the X and Y axes are considered to convey the magnitudes adequately for the purpose of the slide. Adding more marks provides unnecessary information, crowds existing numbers and forces the illustrator to use smaller figures than would otherwise be necessary.

12. VISUAL CONTRAST. Legibility will be increased if there are contrasts in brightness and tone between illustrations and backgrounds. Color combinations that increase visibility include white letters on medium blue, or black on medium yellow. Never use black letters on a dark background.

13. THUMBSPOT SLIDES. Hold slide as it reads correctly to you. Write sequence number on lower left corner of the mount. This gives the projectionist the correct corner to grasp when placing slides in the tray.

14. INTEGRATED WITH VERBAL TEXT. Slides should support the verbal text and not merely display numbers generated in the study. Conversely, the verbal text should lay a proper foundation for each slide. As each slide is shown, it is useful to give the audience a brief opportunity to become oriented before proceeding.

Use duplicate slides if you will refer to the same slide several times during your presentation.

15. CLEAR TRAIN OF THOUGHT. Ideas developed in the paper and supported by the slides should flow smoothly in a logical sequence, without wandering to irrelevant asides or bogging down in detail. Everything presented verbally or visually should have a clear role in support of the central theses of the paper.

Reference: Miller, D.A. and Luria, S.M., Naval Submarine Medical Research Laboratory, Groton, CT.*

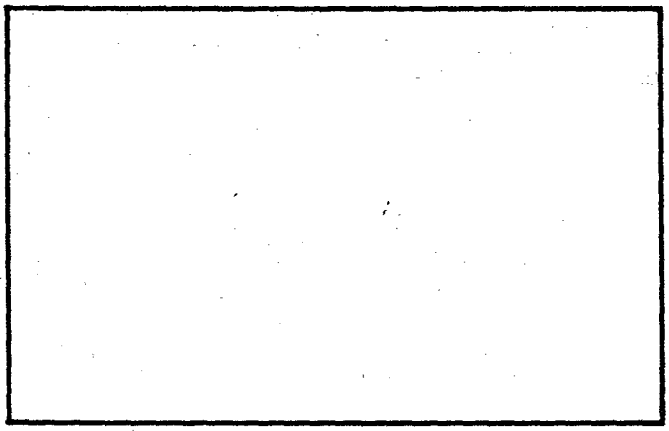
Prepared from the above reference at the request of FASEB Office of Scientific Meetings.

**The opinions and assertions contained herein are the private ones of the authors and are not to be construed as officially reflecting the view of the Navy Department, the Naval Submarine Medical Research Laboratory, or the Naval Service at large.*

TYPED SLIDE TEMPLATE

WIDTH=9cm (42 spaces)

HEIGHT=6cm (14 single space lines)



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Chevy Chase Travel, Inc.

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May 1-5, 1988

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EXCLUSIVE TRAVEL ARRANGEMENTS FOR THE FASEB ANNUAL MEETING

Las Vegas, Nevada
May 1-5, 1988

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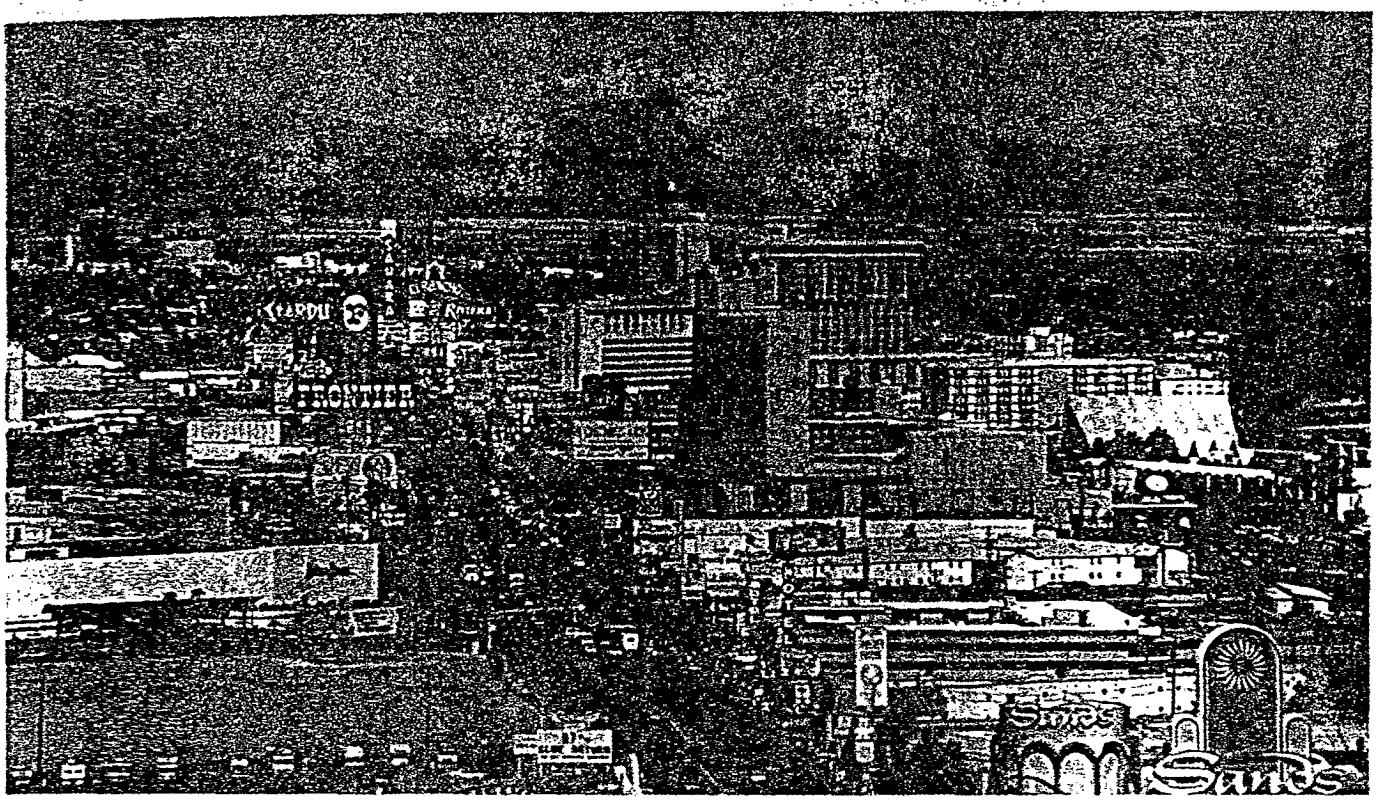

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